

Docket No. 239538US0X/hc



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Andreas BECKMANN, et al.

SERIAL NO: 10/634,894

GAU:

FILED: August 6, 2003

EXAMINER:

FOR: OLIGOMERIZATION OF ISOBUTENE IN N-BUTENIC HYDROCARBON STREAMS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references, some of which are cited in the attached European Search Report listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☒ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
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Rohitha Jayasuriya
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GROUP:

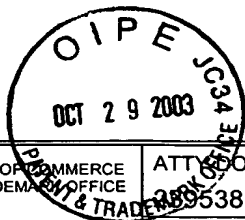
FILED: August 6, 2003

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FOR: OLIGOMERIZATION OF ISOBUTENE IN N-BUTENIC HYDROCARBON
STREAMS

STATEMENT OF RELEVANCY

References AC through AP and AR through BH on Form 1449 are discussed in the specification.

Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTACHMENT NO.

25538US0X

SERIAL NO.

10/634,894

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Andreas BECKMANN, et al.

FILING DATE

August 6, 2003

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	5,994,601	11/30/1999	F. NIERLICH, et al.			
	AB	5,177,282	01/05/1993	F. NIERLICH, et al.			
	AC	3,518,323	06/30/1970	L. A. PINE, et al.			
	AD	3,531,539	09/29/1970	C. M. TIDWELL			
	AE	3,832,418	08/27/1974	P. G. BERCIK, et al.			
	AF	4,100,220	07/11/1978	W. G. BOWMAN, et al.			
	AG	4,197,185	04/08/1980	J-F. LE PAGE, et al.			
	AH	4,375,576	03/01/1983	L. A. SMITH, JR.			
	AI	4,447,668	05/08/1984	L. A. SMITH, JR., et al.			
	AJ	4,720,600	01/19/1988	J. H. BEECH, JR., et al.			
	AK	5,003,124	03/26/1991	L. A. SMITH, JR., et al.			
	AL	5,723,687	03/03/1998	M. MARCHIONNA, et al.			
	AM	5,877,372	03/02/1999	T. I. EVANS, et al.			
	AN	6,274,783	08/14/2001	G. R. GILBERT, et al.			
	AO	US 2002/0002316 A1	01/03/2002	M. DI GIROLAMO, et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AP	WO 01/51435	07/19/2001	WIPO		
	AQ	WO 02/064531	08/22/2002	WIPO (with English Abstract)		X
	AR	0 048 893	04/07/1982	EUROPE		X
	AS	0 224 220	06/03/1987	EUROPE		X
	AT	0 325 144	07/26/1989	EUROPE		X
	AU	0 417 407	03/20/1991	EUROPE		X
	AV	0 536 839	04/14/1993	EUROPE		
	AW	1 074 534	02/07/2001	EUROPE		
	AX	2 223 513	11/23/1972	GERMANY		X
	AY	28 53 769	06/19/1980	GERMANY		X
	AZ	29 44 457	05/14/1981	GERMANY		X
	BA	2 057 006	03/25/1981	GREAT BRITAIN		
	BB	2 325 237	11/18/1998	GREAT BRITAIN		
	BC	WO 93/06926	04/15/1993	WIPO		
	BD	WO 01/81278	11/01/2001	WIPO		

☐ Additional References sheet(s)
attached

Examiner

Date
Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. 239538US0X	SERIAL NO. 10/634,894
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT Andreas BECKMANN, et al.	
		FILING DATE August 6, 2003	GROUP
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)			
	BE	G. SCHARFE, Hydrocarbon Processing, pages 171-173, "CONVERT BUTENES TO HIGH OCTANE OLIGOMERS", April 1973	
	BF	B. SCHLEPPINGHOFF, Erdöl und Kohle-Erdgas-Petrochemie vereinigt mit Brennstoff-Chemie, vol. 27, no. 5, pages 240-245, "DIE GEWINNUNG VON C ₄ -FRAKTIONEN AUS ÄTHYLENANLAGEN UND DIE TECHNOLOGIE DER VERARBEITUNG VON C ₄ -KOHLENWASSERSTOFFEN", May 1974	
	BG	M. J. TSAI, et al., Hydrocarbon Processing, pages 81-87, "CONSIDER NEW TECHNOLOGIES TO REPLACE MTBE", February 2002	
	BH	K. WEISSERMEL, et al., Industrielle Organische Chemie, Wiley-VCH, 5 th Edition, pages 22 - 25, 65 - 99 and 118 - 125, 1998	
	BI		
	BJ		
	BK		
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	BN		
	BO		
	BP		
	BQ		
	BR		
	BS		
	BT		
	BU		
	BV		
	BW	<input type="checkbox"/> Additional References sheet(s) attached	
Examiner		Date Considered	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			